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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,348	11/26/2003	Michael Conrad	07781.0117-00000	6160
22852	7590 06/21/2006		EXAMINER	
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			ROBINSON, GRETA LEE	
			ART UNIT	PAPER NUMBER
			2168	
			DATE MAILED: 06/21/200	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/721,348	CONRAD ET AL.			
Office Action Summary	Examiner	Art Unit			
	Greta L. Robinson	2168			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	I. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>26 Not</u> This action is <b>FINAL</b> . 2b)⊠ This     Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
<ul> <li>4)  Claim(s) 1-46 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdraw</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-46 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>	vn from consideration.				
Application Papers		•			
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on 26 November 2003 is/an Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correction 11)☐ The oath or declaration is objected to by the Ex	re: a)  accepted or b)  objector drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 05/21/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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#### **DETAILED ACTION**

1. Claims 1-46 are pending in the present application.

#### Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on May 21, 2004 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner, note attached copy of form PTO 1449.

# **Drawings**

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the first data field, second data field, third data field and data structure must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering

of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

4. The drawings are objected to because of the partial views in Figure 1. Note "input means" element 113 is not shown as coupled or connected to "output means" element 112. Also note disclosure page 17 lines 2-3. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of

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any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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- 5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: Table 702 (see page 23 line 2). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 6. The drawings are objected to under 37 CFR 1.83(a) because they fail to show a plurality of computer systems as described in the specification [note page 17 line 5, also page 16 paragraph 066 line 3]. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate

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prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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#### 7. INFORMATION ON HOW TO EFFECT DRAWING CHANGES

# **Replacement Drawing Sheets**

Drawing changes must be made by presenting replacement sheets which incorporate the desired changes and which comply with 37 CFR 1.84. An explanation of the changes made must be presented either in the drawing amendments section, or remarks, section of the amendment paper. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). A replacement sheet must include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of the amended drawing(s) must not be labeled as "amended." If the changes to the drawing figure(s) are not accepted by the examiner, applicant will be notified of any required corrective action in the next Office action. No further drawing submission will be required, unless applicant is notified.

Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not

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been assigned to the application. If this information is provided, it must be placed on the front of each sheet and within the top margin.

#### **Annotated Drawing Sheets**

A marked-up copy of any amended drawing figure, including annotations indicating the changes made, may be submitted or required by the examiner. The annotated drawing sheet(s) must be clearly labeled as "Annotated Sheet" and must be presented in the amendment or remarks section that explains the change(s) to the drawings.

# **Timing of Corrections**

Applicant is required to submit acceptable corrected drawings within the time period set in the Office action. See 37 CFR 1.85(a). Failure to take corrective action within the set period will result in ABANDONMENT of the application.

If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the "Notice of Allowability." Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136 for filing the corrected drawings after the mailing of a Notice of Allowability.

#### Specification

- 8. The disclosure is objected to because of the following informalities:
  - omitted text describing the background and summary of the invention note page 4 paragraph 009 line 4 "In addition, the foregoing background and summary are". Note the following paragraph is Brief Description of the Drawings and not addition information regarding background and summary;
  - page 17 line 4 "net connection 114" should read "network connection 114";
     also
  - Applicant is asked to update cross-reference to related applications on page 1 paragraph 002.

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Appropriate correction is required.

#### Claim Rejections - 35 USC § 112

9. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 10. Claims 1-46 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The detailed description of the disclosure and the drawings do not appear to describe the limitation "creating an electronic data element comprising a first data field", "a second data field", or "a third data field". The summary of the invention page 4 paragraph 007 appears to be the only mentioning of the limitation. The detailed description pages 6 through 28 does not appear to mention or describe this limitation.
- 11. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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12. Claims 6, 11, 29 and 34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 6, 11, 29 and 34 the following limitation lacks proper antecedent basis "the data structure" [see claim 6 line 1; claim 11 line 1; claim 29 line 1; claim 34 line 1].

Regarding claims 13 and 36 the following limitation lacks proper antecedent basis "the third field" [see claim 13 line 1; claim 36 line 2].

# Claim Rejections - 35 USC § 101

13. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

14. Claims 1-46 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. A useful, concrete tangible result does not occur. A useful, concrete tangible result must be either specifically recited in the claim or flow inherently therefrom. A complete disclosure should contain some indication of why the claimed invention is useful, as presently written the disclosure appears to omit details of how to implement the claimed limitation creation of "a first data field", a "second data field" as recited in the independent claims. Note objection to specification and rejection cited under 35 USC 112 first paragraph supra. The presently written claim

appears to recite non-functional arrangements of data with no tangible result and is therefore non-statutory subject matter.

# Claim Rejections - 35 USC § 103

- 15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

16. Claims 1-5, 21-23, 24-28 and 44-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lunceford et al. US Patent 5,764,973 in view of Suver US Patent 6,016,497.

Regarding claim 1, Lunceford et al. teaches a method for processing one or more data objects in business applications [note: abstract], comprising:

creating an electronic data element comprising a first data field and a second data field, wherein the first data field contains data representing an identifier functioning as a link to one or more data objects and the second data field represents a state of the identifier in the first data field [note: create logical data element for each table (257) Figure 6; Link database element to table (2571) Figure 6]; and

associating the identifier of the electronic data element with the one or more data objects [note: col. 7 lines 1-46; col. 8 lines 26-39]. Although Lunceford teaches creation of logical elements he does not specifically teach that the second data field represents a state of the identifier, Suver teaches providing users the ability to create and define data structures or groups of columns to associate or link elements [see: col. 17 lines 35-65; Figure 13]. It would have been obvious to one of ordinary skill at the time of the invention to have combined Suver with Lunceford et al. because user-defined data structures would allow the end user to customize the creation of an electronic element and add greater flexibility to how the structure is defined or implemented.

17. Regarding claim 2, wherein the second data field may be one of: a) a first state, in which said electronic data element may be accessed by one or more data object processing operations and whereby said identifier is assignable to one or more data objects, b) a second state, in which said electronic data element may not be accessed by one or more data object processing operations and whereby said identifier is

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assignable to one or more data objects, or c) a third state, in which said electronic data element may not be accessed by one or more data object processing operations and whereby said identifier is not assignable to one or more data objects [note: Suver col. 17 lines 35-47; Figure 13].

- 18. Regarding claim 3, wherein the first data field and the second data field are in a table [note: Suver abstract; Figure 13; Figure 16 (1640); col. 9 lines lines 15-57; and col. 17 lines 35-41].
- 19. Regarding claim 4, wherein the first data field is in a first table and the second data field in a second table [note: Suver abstract; Figure 13; Figure 16 (1640); col. 9 lines 15-57; and col. 17 lines 35-41].
- 20. Regarding claim 5, wherein the electronic data element is implemented in object oriented programming as an instance of a class [note: Lunceford et al. col. 4 lines 49-57 techniques may be implemented in object-oriented database].
- 21. Regarding claims 21-23, further comprising replicating the data objects from a source system to a target system ... comprises a globally unique identifier ...time stamp [note: Lunceford et al. Figure 11; col. 10 lines 43-65]; .

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22. The limitations of system claims 24-28 and 44-46 parallel method claims 1-5 and 21-23 therefore they are rejected under the same rationale.

#### Conclusion

23. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Mukhopadhyay et al. US Patent 6,032,158

Martin et al. US Patent 6,029,178

King US Patent 6,862,599 B2

Bakalash et al. US Patent 6,408,292 B1

Dahlberg US Patent 6,463,439 B1

Schreiber US Patent 6,611,837 B2

Bashant et al. 6,636,875 B1

Holcombe et al. US Patent 6,671,696 B1

Beizer et al. US Patent Application Publication No. 2002/0059325 A1

24. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Greta L. Robinson whose telephone number is (571)272-4118. The examiner can normally be reached on M-F 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim T. Vo can be reached on (571)272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PRIMARY EXAMINER

Greta Robinson Primary Examiner June 13, 2006